

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

COPY

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

AN OPTICAL DISK, AN OPTICAL DISK BARCODE FORMING METHOD, AN OPTICAL DISK REPRODUCTION APPARATUS, A MARKING FORMING APPARATUS, A METHOD OF FORMING A LASER MARKING ON AN OPTICAL DISK, AND A METHOD OF MANUFACTURING AN OPTICAL DISK
the specification of which _____,

(check one)

☐ is attached hereto.

☒ was filed on May 16, 1996 as
Application Serial No. 08/649,411
and was amended on May 16, 1996 by Preliminary Amendment
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed
Pat. Appln. Hei 7-261,247	Japan	09, October, 1995	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)	
Pat. Appln. Hei 8-008,910	Japan	23, January, 1996	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)	
(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

0 /	(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
0 /	(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (*list name and registration number*)

Paul F. Prestia	Reg.No.23,031	Benjamin E. Leace	Reg.No.33,412
Allan Ratner	Reg.No.19,717	Lawrence E. Ashery	Reg.No.34,515
Andrew L. Ney	Reg.No.20,300	Christopher R. Lewis	Reg.No.36,201
Kenneth N. Nigon	Reg.No.31,549	Steven E. Koffs	Reg.No.37,163
Kevin R. Casey	Reg.No.32,117	Anthony L. DiBartolomeo	Reg.No.37,308
Guy T. Donatiello	Reg.No.33,167	Allan M. Wheatcraft	Reg.No.36,307
James C. Simmons	Reg.No.24,842	Anthony Grillo	Reg.No.36,535
Viviana Amzel	Reg.No.30,930	David A. Fox	Reg.No.38,807
Steven Kreiss	Reg.No.31,388		

Send Correspondence to:

Ratner & Prestia, 500 North Gulph Road, P.O. Box 980, Valley Forge, PA 19482

Direct Calls to: (*name and telephone number*)

(610) 265-6666

Full name of sole or first inventor	
Yoshiho Gotoh	
Inventor's signature	Date
<i>Yoshiho Gotoh</i>	May 20, 1996
Residence	
Osaka-shi, Osaka, JAPAN	
Citizenship	
Japan	
Post Office Address	
#201, 9-17, Higashinakahama 4-chome, Jyoto-ku, Osaka-shi, Osaka 536 JAPAN	
Full name of second joint inventor, if any	
Mitsuaki Oshima	
Second Inventor's signature	Date
<i>Mitsuaki Oshima</i>	May 20, 1996
Residence	
Kyoto-shi, Kyoto, JAPAN	
Citizenship	
Japan	
Post Office Address	
115-3, Minamitatsumi-cho, Katsura, Nishikyo-ku, Kyoto-shi, Kyoto 615 JAPAN	

(Supply similar information and signature for third and subsequent joint inventors.)

Full name of third joint inventor, if any	
Shinichi Tanaka	
Third Inventor's signature	Date
<i>Shinichi Tanaka</i>	May 20, 1996
Residence	
Kyoto-shi, Kyoto JAPAN	
Citizenship	
Japan	
Post Office Address	
C-403 Rose mansion, 10-1, Hotta-cho, Fukakusa, Fushimi-ku, Kyoto 612 JAPAN	

Full name of fourth joint inventor, if any	
Kenji Koishi	
Fourth Inventor's signature	Date
<i>Kenji Koishi</i>	May 20, 1996
Residence	
Sanda-shi, Hyogo, JAPAN	
Citizenship	
Japan	
Post Office Address	
3-56-8, Keyakidai, Sanda-shi, Hyogo 669-13 JAPAN	

Full name of fifth joint inventor, if any	
Mitsuro Moriya	
Fifth Inventor's signature	Date
<i>Mitsuro Moriya</i>	May 20, 1996
Residence	
Ikoma-shi, Nara, JAPAN	
Citizenship	
Japan	
Post Office Address	
1-29, Hikarigaoka 3-chome, Ikoma-shi, Nara 630-01 JAPAN	

Full name of sixth joint inventor, if any	
Sixth Inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

MTS-710

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Y. Goto et al. : Art Unit:
Serial No.: To Be Assigned : Examiner:
Filed: Herewith :
FOR: AN OPTICAL DISK, AN OPTICAL :
DISK BARCODE FORMING METHOD, AN :
OPTICAL DISK REPRODUCTION :
APPARATUS, A MARKING FORMING :
APPARATUS, A METHOD OF FORMING :
A LASER MARKING ON AN OPTICAL :
DISK, AND A METHOD OF :
MANUFACTURING AN OPTICAL DISK

COPY

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231
S I R :

Prior to examination, please amend the above-identified application as follows.

IN THE DRAWINGS:

Please approve the corrections to the drawings submitted in the enclosed red inked sketch under cover of a letter to the official draftsman. Fig. 3 has been amended to correct a typographical error. Figs. 6, 7 and 30 have been amended to substitute English language labels for Japanese language labels.

IN THE SPECIFICATION:

On page 3, lines 20-21, delete "being used when encrypting prescribed data for transmission" and insert therefor --is used to encrypt prescribed data, and the encrypted prescribed data is transmitted--.

On page 5, line 7, delete "main data".

On page 5, line 10, after "area" insert --other--.

On page 5, line 10, delete "main data".

On page 5, line 14, delete "main data".

On page 5, second line from the bottom, delete "said" and insert therefor --a--.

On page 6, line 13, after "barcode," insert --said different recording area is also such area to which contents are recorded with pits,--.

On page 6, line 16, after "pits" insert --which are formed in said different recording area--.

On page 11, sixth line from the bottom, after "CLV," insert --and--.

On page 11, sixth line from the bottom, delete "being" and insert therefor --is--.

On page 17, line 9, delete "dada" and insert therefor --data--.

On page 79, bottom line, delete "49(a)" and insert therefor --14(a)--.

On page 80, line 3, delete "49(a)" and insert therefor --14(a)--.

On page 80, line 5, delete "49(b)" and insert therefor --14(b)--.

On page 80, line 9, delete "49(c) and 49(d)" and insert therefor --14(c) and 14(d)--.

On page 80, line 18, delete "49(c) and 49(d)" and insert therefor --14(c) and 14(d)--.

On page 81, line 17, delete "49(c) and 49(d)" and insert therefor --14(c) and 14(d)--.

On page 81, line 18, after "0s" insert --, as shown in Figure 14(b)--.

IN THE CLAIMS:

Please amend claims 6, 14, 17, 20 and 33 as follows:

1 6. (Amended) An optical disk according to claim 5, wherein
2 said barcode contains data including, in addition to said ID information, a
3 public key of a public key encryption function corresponding to said ID
4 information, said public key [being] is used [when encrypting] to encrypt
5 prescribed data, and the encrypted prescribed data is transmitted [for
6 transmission] to an external party in order to obtain from said external party
7 a password required to reproduce said optical disk.

1 14. (Amended) An optical disk reproduction apparatus
2 wherein recorded contents of a [main data] recording area, recorded by
3 forming pits on an optical disk, are reproduced by using a rotational phase
4 control for a motor, while recorded contents of a different recording area
5 other than said [main data] recording area, recorded by selectively forming

6 low-reflectivity portions on a reflective film in said different recording area,
7 are reproduced by using rotational speed control for said motor, and
8 the recorded contents of said [main data] recording area and the
9 recorded contents of said different recording area are both reproduced by
10 using the same optical pickup.

1 17. (Amended) An optical disk reproduction apparatus
2 according to claim 16, wherein said rotational speed is [the] a rotational
3 speed that would be achieved in said different recording area if said rotational
4 phase control were applied.

1 20. (Amended) An optical disk reproduction apparatus
2 according to claim 14, wherein
3 said low-reflectivity portions are a barcode, said different
4 recording area is also such area to which contents are recorded with pits, and
5 when reproducing the recorded contents of said different
6 recording area, a high-frequency-component signal generated during
7 reproduction of said pits which are formed in said different recording area is
8 reduced or eliminated by a low-pass filter, thereby making it possible to
9 separate a signal which is reproduced from said barcode.

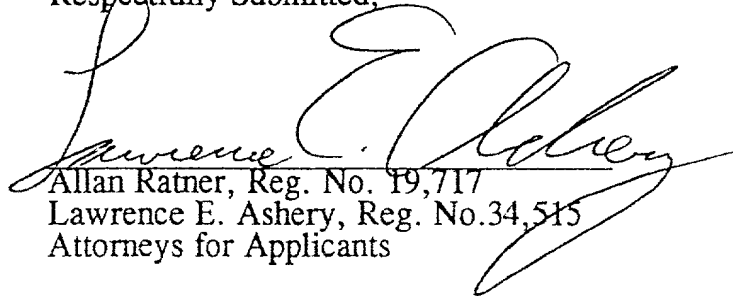
1 33. (Amended) A method of manufacturing a disk, comprising
2 the steps of:

3 forming at least one disk;
4 forming a reflective film to said formed disk;
5 applying at least one marking to said reflective film;
6 detecting at least one position of said marking; and
7 encrypting said detected position information and writing said
8 encrypted information onto said disk,

9 wherein, when encrypting and writing, at least said encrypted
10 information is converted into a barcode, and said barcode is written by

- 11 eselectively removing said reflective film on said disk on which data is
 12 recorded with CLV, and
 13 all or part of said barcode [being] is written in overwriting
 14 fashion to a prescribed region of a pre-pit signal area on said disk.

Respectfully Submitted,


 Allan Ratner, Reg. No. 19,717
 Lawrence E. Ashery, Reg. No. 34,515
 Attorneys for Applicants

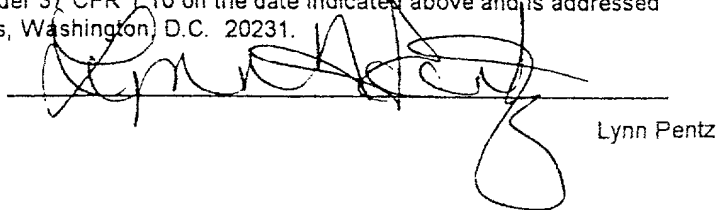
JMW/lis

500 N. Gulph Road
 P.O. Box 980
 Valley Forge, PA 19482
 (610) 265-6666

The Assistant Commissioner for Patents is
 hereby authorized to charge payment to
 Deposit Account No. 18-0350 of any fees
 associated with this communication.

EXPRESS MAIL Mailing Label Number. EH236282184US
 Date of Deposit: May 16, 1996

I Hereby certify that this paper and fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.


 Lynn Pentz